

 ICOM

IP501H

IP ADVANCED RADIO SYSTEM

# LTE Transceiver

***LTE (4G) and 3G***



- Push-to-Talk Instant Communications**
- Communication throughout the Coverage Area of LTE (4G) and 3G Network**
- Talk and Listen Simultaneously: Full-Duplex Conversation**

# Instant Wide Area Coverage Over a LTE (4G) and 3G Network

The IP501H provides wide area communication using a LTE (4G) and 3G network and instantaneous communication.

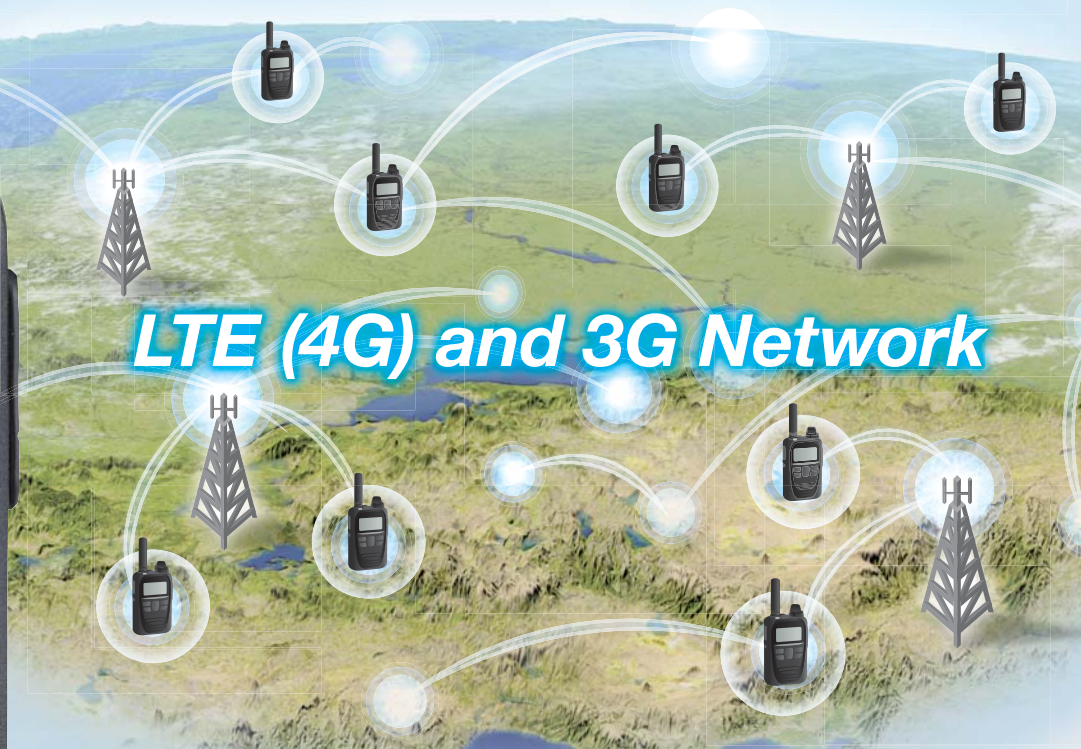
Individual calls, Group calls or All calls can be made the same way as a conventional two-way radio.



Actual Size

IP ADVANCED RADIO SYSTEM

## IP501H



## Communication throughout the Coverage of LTE (4G) and 3G Network

Using a LTE (4G) and 3G network, the IP501H can provide stable connection and wide area communication throughout the coverage of the network. The IP501H does not require its own repeaters or IP network which reduces the cost of building and maintaining a wide area radio network.

\* Service availability depends on the country. Network coverage provided by custom ICOM SIM card.



Railroads



Security



Event Management

## Full-Duplex Communication

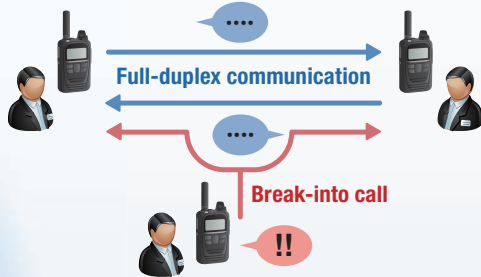
The IP501H enables use of full-duplex communication which provides smooth telephone style conversations. The IP501H users can talk and receive at the same time.

## Multiple User Communication

Multiple users in the system can initiate calls respectively. There are no requirements to check or wait for channel availability.

## Priority Interrupt Calling

The IP501H supports group calls with three or more people. In case of an emergency, you can break into an on-going call to transmit an important message.



## Industry Leading Compact and Lightweight Body

Compact 59 × 95 × 32 mm; 2.3 × 3.7 × 1.3 in and 240 g; 8.5 oz (approximate) lightweight body\* allows non-intrusive mobility and use.

\* With BP-272 battery pack and antenna. Projections are not included.

## IP67 Dust-Tight and Waterproof

The IP501H has reputable waterproof performance to endure 1 m depth water for 30 minutes. It can be used for outdoor work or places prone to get wet.



## Optional Charger Cradle With Bluetooth® Function

When the optional BC-218, charger cradle and HM-215, speaker-microphone is used, calls can be made with the microphone, while charging the IP501H. Even when the IP501H is not dropped into the BC-218, the Bluetooth® function enables you to wirelessly use the speaker-microphone.



\* May not be available in some countries. Please confirm the regulations in your country before you use.

## Other Features

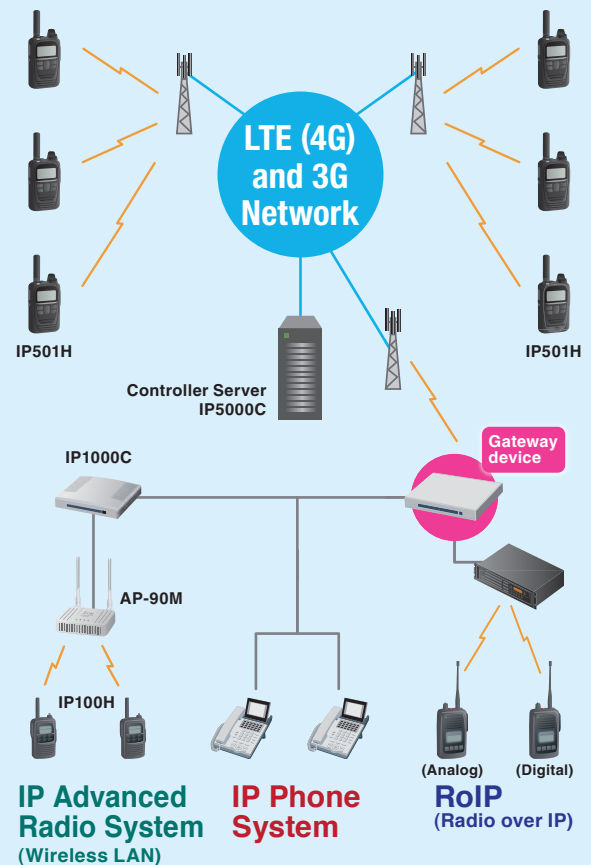
- High quality, clear audio using G.726 Vocoder
- Individual, Group, Talkgroup, Multiplex Talkgroup and All calls
- Emergency button, Lone Worker and Man Down functions
- Vibration alert function notifies of incoming call
- Text message reception and preprogrammed message transmission
- Up to 500 memory address book (including Group, Individual, Talkgroup and Telephone lists)
- Voice message recording
- Built-in Bluetooth® and GPS\*

\* Gateway device required for GPS data (future).

### Interconnect between IDAS™ and IP100H systems

With a gateway device\*, the IP501H system will provide interoperability with an IP phone, analogue transceiver, IDAS™ digital transceiver and IP100H wireless LAN network systems in the future. In addition, GPS position data can be obtained from the IP501H transceiver.

\* The gateway device will be available in the future.



Road Maintenance



Hospitality



Transportation

OPTIONS

**BATTERY PACKS**



**BP-271**  
Rechargeable Li-ion  
1150/1200 mAh  
(min./typ.)  
IP67 waterproof

**BP-272**  
Rechargeable Li-ion  
1880/2000 mAh  
(min./typ.)  
IP67 waterproof


**RAPID CHARGER**



**BC-202IP2**

**BC-123S\*\***

**MULTI-CHARGER**



**BC-211**

**BC-157S**

**CIGARETTE LIGHTER CABLES**  
(for use with BC-218)



**CP-22**  
With DC-DC converter  
(12-24 V DC)

**CP-23L**  
For 12 V DC

\*1 BC-123SA for USA plug, SE for Europe plug, SV for Australia plug.

**CHARGER CRADLE**



**BC-218**  
Charger cradle with Bluetooth® function

**BC-207S**

**HM-215**  
Speaker-microphone for BC-218

**MBA-7**  
Bracket Adaptor for BC-218

**MBF-1**  
Mounting Base

**SPEAKER-MICROPHONES**



**HM-183LS**  
IPX7 waterproof

**HM-186LS**

**EARPHONE-MICROPHONES**



**HM-153LS**

**HM-166LS**

**HEADSETS**



**HS-102\*\*2**  
Earphone type

**HS-94\*\*3**  
Earhook type

**HS-95\*\*3**  
Behind-the-head type

**HS-97\*\*3**  
Throat-microphone type

**VS-3**  
Bluetooth® headset

**CARRYING CASES**



**LC-183\*\*4**  
For use with BP-271

**LC-185\*\*4**  
For use with BP-272

- **MB-135:**  
Belt clip. Same as supplied.
- **OPC-2006LS:**  
Plug adapter cable.
- **OPC-2328:**  
PTT switch cable.  
Either OPC-2006LS or OPC-2328 is required when using any of HS-94, HS-95 or HS-97.
- **OPC-2359:**  
PTT switch cable.  
OPC-2359 is required when using HS-102.

\*2 OPC-2359 is required when using HS-102.

\*3 Either OPC-2006LS or OPC-2328 is required when using any of these headsets. (Simplex mode operation only)

\*4 Charging is possible while the case is attached.

SPECIFICATIONS

Network	4G bands:	LTE B1, B3, B7, B8, B20 (EXP) LTE B2, B4, B5, B17 (USA)
	3G bands:	W-CDMA B1, B8 (EXP) W-CDMA B2, B5 (USA)
Dimensions (W x H x D; Projections not included)	59 x 95 x 32 mm; 2.3 x 3.7 x 1.3 in (with BP-272)	
Weight (approx.)	240 g; 8.5 oz (with BP-272 and antenna)	
Voice Codec	G.726 (32 kbps)	
AF output power	Internal SP	400 mW (16 Ω at 10% distortion)
	External SP	200 mW (8 Ω at 10% distortion)
Operating time* (5:5:90 duty cycle.)	More than 17 hours (with BP-272)	
Bluetooth	Ver 2.1 +EDR	
GPS	Built-in	
Operating temperature	-10 °C to +60 °C; +14 °F to +140 °F	
IP rating	IP67/55/54	

\* Operating time may differ depending on operating environments.  
All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

MIL 810G Standard	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Dust Blowing	510.5	I
Immersion	512.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Supplied accessories

- BP-272 Li-ion battery pack
- MB-135 belt clip
- Hand strap
- Antenna

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Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 [www.icom.co.jp/world](http://www.icom.co.jp/world)

Count on us!

**Icom America Inc.**  
12421 Willows Road NE,  
Kirkland, WA 98034, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: sales@icomamerica.com  
URL: <http://www.icomamerica.com>

**Icom (Europe) GmbH**  
Communication Equipment  
Auf der Krautweide 24  
65812 Bad Soden am Taunus, Germany  
Phone: +49 (6196) 76685-0  
Fax: +49 (6196) 76685-50  
E-mail: info@icom-europe.com  
URL: <http://www.icom-europe.com>

**Icom France s.a.s.**  
Zac de la Plaine  
1 Rue Brindejonc des Moulinais, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone: +33 (5) 61 36 03 03  
Fax: +33 (5) 61 36 03 00  
E-mail: icom@icom-france.com  
URL: <http://www.icom-france.com>

**Icom Canada**  
Glenwood Centre #150-6165  
Highway 17A, Delta, B.C.,  
V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: info@icomcanada.com  
URL: <http://www.icomcanada.com>

**Icom Spain S.L.**  
Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
Bajos A 08174, Sant Cugat del Valles,  
Barcelona, Spain  
Phone: +34 (93) 590 26 70  
Fax: +34 (93) 589 04 46  
E-mail: icom@icomspain.com  
URL: <http://www.icomspain.com>

**Icom (Australia) Pty. Ltd.**  
Unit 1 / 103 Garden Road,  
Clayton, VIC 3168 Australia  
Phone: +61 (03) 9549 7500  
Fax: +61 (03) 9549 7505  
E-mail: sales@icom.net.au  
URL: <http://www.icom.net.au>

**Icom Brazil**  
Rua Itororó, 444 Padre Eustáquio  
Belo Horizonte MG,  
CEP: 30720-450, Brazil  
Phone: +55 (31) 3582 8847  
Fax: +55 (31) 3582 8987  
E-mail: sales@icombrasil.com

**Icom (UK) Ltd.**  
Blacksloe House, Altira Park,  
Herne Bay, Kent, CT6 6GZ, U.K.  
Phone: +44 (0) 1227 741741  
Fax: +44 (0) 1227 741742  
E-mail: info@icomuk.co.uk  
URL: <http://www.icomuk.co.uk>

**Shanghai Icom Ltd.**  
No.101, Building 9, Caifuxingyuan Park,  
No.188 Maoting Road, Chedun Town,  
Songjiang District, Shanghai, 201611, China  
Phone: +86 (021) 6153 2768  
Fax: +86 (021) 5765 9987  
E-mail: bjiacom@bjiacom.com  
URL: <http://www.bjiacom.com>

Your local distributor/dealer:

**HiTechWireless**

Phone: 888.511.5162

Fax: 866.341.3315

Sales:sales@hitechwireless.com

www.HiTechWireless.com